



A.D. 1821 N° 4567.

S P E C I F I C A T I O N

OF

WILLIAM COLES.

BRACES FOR THE RELIEF OF HERNIA.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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1857.



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Braces for the Relief of Hernia.

COLES' SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM COLES, of New Street Square, in the Parish of St. Bridges, in the City of London, Mechanic, send greeting.

WHEREAS His most Excellent Majesty King George the Fourth did,
5 by His Letters Patent under the Great Seal of that part of the United Kingdom of Great Britain and Ireland called England, bearing date at Westminster, the Fifth day of July, in the second year of His reign, give and grant unto me, the said William Coles, my eñors, adñors, and assigns, His especial licence, full power, sole privilege and authority, that I, the
10 said William Coles, my eñors, adñors, and assigns, during the term of years therein mentioned, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "BRACES OR INSTRUMENTS FOR THE RELIEF OF HERNIA OR RUPTURES;" in which said Letters Patent there is contained a proviso that if
15 I, the said William Coles, shall not particularly describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said Letters
20 Patent, that then the said Letters Patent, and all liberties and advantages whatsoever thereby granted, shall utterly cease, determine, and become void, as in and by the same, relation being thereunto had, will more fully and at large appear.

Coles' Improved Braces for Hernia.

NOW KNOW YE, that in compliance with the said proviso, I, the said William Coles, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are particularly described and ascertained in and by the Drawing hereunto annexed, and the following description thereof (that is to say):—

My Invention of an improvement on “Braces or Instruments for the Relief of Hernia or Ruptures,” consists in the introduction of a spiral spring, and the particular mode of attaching the same between the pad and the wasteband, brace, or girdle; and also in the introduction of a plate of steel into the brace for the purpose of forming a resistance to the spring. Fig. 1 represents a brace, bandage, or girdle of leather or other suitable substance intended to pass round the human body. The situation of the plate of steel or other resisting material is shewn in this Figure by the dotted lines *a, a, a, a*, and of its full size in Fig. 11, with a hole for the admission of the screw *b*. The spiral spring is not seen in Fig. 1, being then covered with calico, silk, linen, or other material, but is seen in Fig. 3; the screw *b* secures the pad, the spring, the leather strap, and bandage together. A nut, Fig. 10, is soldered into the upper coil of the spring at *e*, Figs. 5, 7, and 15, to receive the screw, Fig. 9, and a flanch is formed to the nut, Fig. 10, on one side, and a cap, Fig. 8, soldered on to the other, for the purpose of holding securely the top coil of the spiral spring. The spiral spring is so constructed that it will sink into the level of its lower coil, its appearance when pressed flat resembling a coiled snake. The bottom coil is by means of loops *i, i*, soldered to a metallic plate formed, as Fig. 4, to suit the case of the complaint, which plate is stitched to a leather pad stuffed with an elastic substance. A leather strap *f* is also stitched to the pad and fastened upon the nut to keep the spring upright. A continuation of the pad passes in the hollow under the opposite thigh, and is attached to the girdle at *g*. The end strap of the girdle loops on to the head of the screw *b*, and keeps the whole secure to the body. Fig. 2 represents a brace or girdle to which two pads and the attendant apparatus are attached, precisely as described above, the respective letters referring to the same part in both Figures; observing that in the latter a buckle is placed at *h* for the purpose of lengthen or shortening the girdle, and two straps are stitched on at *k* and *l*, crossing each other at *m*, and loop on to the screw heads of the opposite pads. Fig. 3 represents a brace or girdle with two oval pads, each having a spiral spring, attached as above, pressing against steel plates exposed in this Figure, but before described as concealed by the covering. These plates are perforated with several holes for the purpose of altering or adjusting the situation of the pads, and the thigh straps are stitched or looped behind to

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the brace or girdle, and in front are brought up and looped on to the screw heads of the pads, the girdle being fastened by a buckle, as shewn in the Drawing. Fig. 4 is the metal plate as stitched to the pads of Figs. 1 and 2. Fig. 5 the bottom view of the spiral spring, having the loops *i, i*. Fig. 6 the plate of the oval pad. Fig. 7 an elevation of the spiral spring. Fig. 8 the cap, Fig. 9 the screw, and Fig. 10 the nut. Fig. 11 the plate of steel as stitched to the girdle *a, a, a, a*. Fig. 12 is a pad to which two spiral springs are applied by means of a bar, exactly in the manner above described, the bar being fastened by means of a screw to a similar steel plate, as described in Fig. 11, and stitched to the girdle. Fig. 13 shews a mode of employing two spiral springs, the steel plate being varied in form; the upper screw is intended to support the principle resistance, and the lower one to receive the thigh strap. Fig. 14 is a round pad with the spring and the same parts as above described, to which may be added the girdle, as Fig. 1, to form a bandage for umbilical hernia. Fig. 15 is a side view of the pad, the spring, and the plate, as referred to above.

In witness whereof, I, the said William Coles, have hereunto set my hand and seal, this Fifth day of January, in the year of our Lord One thousand eight hundred and twenty-two.

WILLIAM (L.S.) COLES.

AND BE IT REMEMBERED, that on the Fifth day of January, in the year of our Lord 1822, the aforesaid William Coles came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

Inrolled the Fifth day of January, in the year of our Lord One thousand eight hundred and twenty-two.

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FIG. 1.

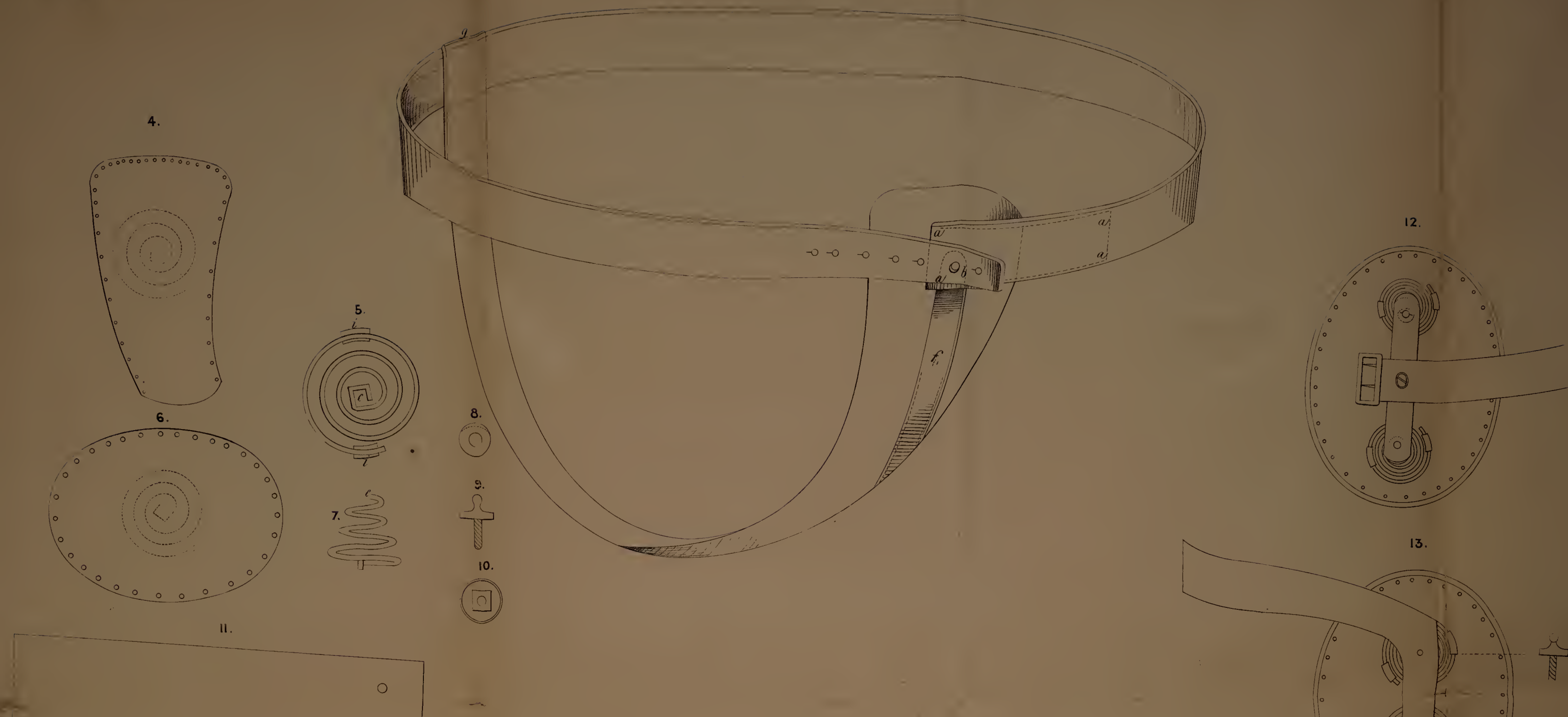


FIG. 2.

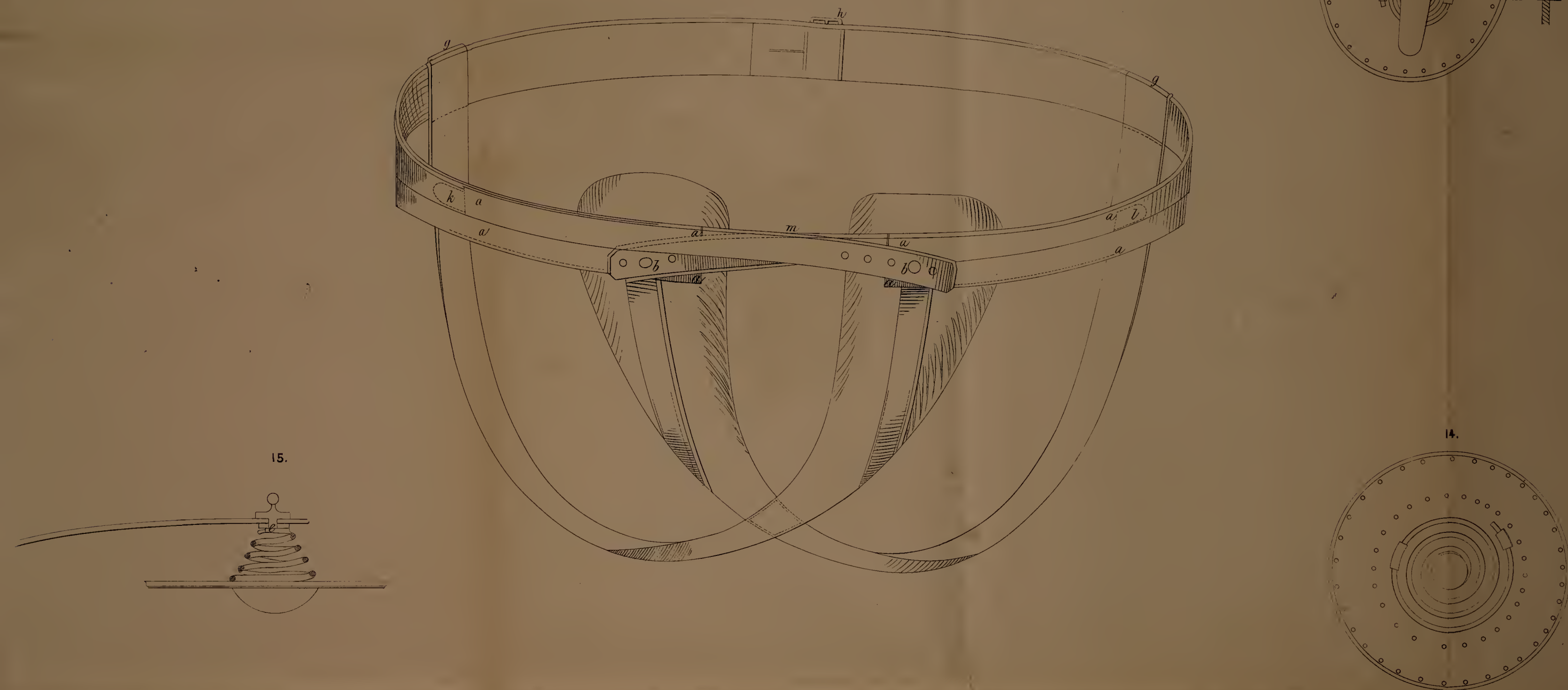


FIG. 3.

